GCCS/DII COE System Integration Support

DII COE Segment Installation Procedures (for IRCS Version 1.0.0.3/2.8.21 for Solaris 2.5.1)

June 18, 1997

Prepared for:

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Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Segment Installation Procedures
for Internet Relay Chat Server (IRCS)
Version 1.0.0.3/2.8.21 (Solaris 2.5.1)

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Preface

The following conventions are used in this document:

Bold	Used for information that is typed, pressed, or selected in executables and instructions. For example, select **connect to host**.
Italics	Used for file names, directories, scripts, commands, user IDs, document names, and Bibliography references; and any unusual computerese the first time it is used in text.
<u>Underline</u>	Used for emphasis.
Arrows <>	Used to identify keys on the keyboard. For example <Return>.
"Quotation Marks"	Used to identify informal, computer-generated queries and reports, or coined names; and to clarify a term when it appears for the first time. For example "Data-Generation Report."
`Courier Font`	Used to denote anything as it appears on the screen or command lines. For example `tar xvf dev/rmt/3mm`.
Capitalization	Used to identify keys, screen icons, screen buttons, field, and menu names.

1.   Installation Procedures (IP) for IRCS

This document provides a quick reference for installing the Internet Relay Chat Server (IRCS) segment for the Defense Information Infrastructure (DII) on Sun-based machines.

1.1   Scope

1.1.1   Identification

This section contains identification information for the IRCS segment:

Segment Name:	Internet Relay Chat Server
Segment Type:	Software
Prefix:	IRCS
Home Directory:	*/h/COE/Comp/IRCS*
Distribution Type:	This software requires no licenses
Version Number:	1.0.0.3/2.8.21
Platform:	Sun (UNIX) Workstation/Solaris 2.5.1.

1.2   System Overview

This section contains system overview information for the IRCS segment:

Purpose:	An IRC server application is an on-line Internet/Secret Internet Protocol Router Network (SIPRNET) conferencing application which transmits messages and commands between IRC client applications, allowing messages entered by users via these applications to be viewed by other IRC client users within seconds.
Usage:	Provides similar capabilities as the "Comm" portion of WIN Teleconferencing and may be used to provide real-time, conferencing capabilities over the SIPRNET to the warfighter.
References:	Reference documentation: See related documents which can be found in the */man* sub-directory of this segment.

2.   Referenced Documents

Soft copies of the following documents can be found in the *IRCS/man* sub-directory of this segment:

- C   Admin
- C   Manual
- C   Networking

C   Operators.

C   *DII COE Segment System Version Description (SVD) - Internet Relay Chat Server (IRCS)* for V1.0.0.3/2.8.21.

C   *DII COE Segment Software Test Description (STD) - Internet Relay Chat Server (IRCS)* for V1.0.0.2/2.8.21.

3. System Environment

3.1 System Requirements

This section lists the system requirements for the IRCS segment.

3.1.1 Hardware Requirements

The following hardware requirements have been identified for testing the integration of the IRCS segment:

Sun Platform

C   IRCS V1.0.0.3/2.8.21
C   OS: Solaris 2.5.1
C   DISK: 721 KB
C   MEMORY: 32000 KB.

3.1.2 Operating System Requirements

The operating system required for testing the integration of the IRCS segment is the Sun Platform, Solaris 2.5.1.

3.1.3 Kernel Requirements

The DII COE kernel version required for testing the integration of the IRCS segment is V3.0.0.3 for Solaris 2.5.1.

3.2 System and Site Preparations

None.

3.2.1 System Configuration

None.

3.2.2   Operation System Preparation

None.

3.2.3   Tape/Disk Preparation

Rewind the tape before beginning the installation process.

4.   Installation Instructions

4.1   Media Booting Procedures

None.

4.2   Installation Procedures

4.2.1   Installing the IRCS Segment

This section describes the procedures necessary to install and de-install the IRCS segment. If you are installing this segment for the first time, refer to Subsection 4.2.1.1. If you are re-installing this segment, please refer to Subsections 4.2.1.2 and 4.2.1.2.

4.2.1.1   Pre-Installation Instructions

The IRCS segment should be installed on the application server machine for your site.

When using the Segment Installer to install this segment, pay close attention to, and follow all instructions provided. Make note of any warning messages that may appear during the course of the installation.

NOTE: Help information is provided for some of the prompts displayed. You may access help information by entering a "?" where indicated.

4.2.1.2   Re-Installation Instructions

If you are re-installing this segment in order to replace an older version of the Internet Relay Chat Server and, if you wish to save the older IRC server configuration, perform the following steps:

Step 1:   Before de-installing the older version of the IRCS segment, copy the */h/COE/Comp/IRCS/lib/ircd/ircd.conf* file to a temporary location. Also, make note of your IRC server's current server type (i.e., a "leaf" or "hub").

Step 2:   De-install the older IRCS segment.

Step 3:   Install V1.0.0.3/2.8.21 of the IRCS segment. Then, specify whether your server is a leaf or a hub. Be sure to specify default values when prompted. Leave text entry fields "blank", and reply "no" when asked to specify IRC operators and neighbors.

NOTE: Your server type specification must match that of your server's previous configuration.

Step 4:   Copy the *ircd.conf* file saved in your temporary location back into the */h/COE/Comp/IRCS/lib/ircd* sub-directory.

Step 5:   Lastly, re-start your IRC server by executing the following commands:

> **/h/COE/Comp/IRCS/lib/stop** (to shut-down the server)
> **/h/COE/Comp/IRCS/lib/start** (to start-up the server).

Your previous IRC server's configuration has now been restored.

4.2.1.3   Installation Walkthrough

The following is a brief walkthrough of the installation procedures for the IRC Server:

Step 1:   `* * * IRC Server Installation Routine  * * *`

Carefully read the initial instructions displayed and press <Enter> to continue.

Step 2:   `* * * IRC Server Type Specification * * *`

When prompted, type **leaf** or **hub** to specify your server as a leaf or hub server respectively. If you are not sure whether or not your server is a hub or a leaf, then, accept the default of leaf.

Step 3:   `* * * IRC Server Host Configuration * * *`

If the machine configuration information displayed is not correct for your machine type **n** and press <Enter>. This will terminate the installation procedures allowing you to check your machine's configuration and make necessary modifications.

If the machine configuration information displayed is corrected, press <Enter>.

If another IRC server has been located in your domain and you wish establish another server in your domain, type **y** and press <Enter> when prompted.

When prompted, enter the correct server name for your IRC server if the default server name specified is not correct. (If your machine has a Domain Name Server [DNS] alias with the prefix "irc", enter the full DNS alias name here.)

Step 3:   * * IRC Server Administration Specification * *

When prompted, enter the name of your facility (e.g., "Kiesler AFB") and press <Enter>.

Next, enter a brief functional description of your server (must be 65 characters or less). This description should indicate how the server will be used on the network (e.g., "Hub Server for SE USA").

Next, enter the name, e-mail address, and/or telephone number of the person who can provide technical assistance to users accessing this server.

Step 4:   * * * IRC SERVER OPERATOR SPECIFICATION * * *

NOTE: IRC Operators need not be specified for leaf servers. Therefore, this routine may be by-passed for leaf servers, if desired.

The IRC Operator nickname is "oper" by default. The *ircd.conf* file can be edited if a different nickname is desired.

a) When asked whether or not you wish to specify IRC operators at this time, type **y** and press <Enter>, to proceed with specifying IRC operators. However, to by-pass this routine, press <Enter> (default response is "n") to continue to the next routine.

b) When prompted, press <Enter> to allow operators to connect to your server from any machine in your server's domain.

c) If you do not want operators to connect to your server from any machine in your server's domain, enter the machine name or IP address of the machine from which they can connect to your server as operators. (You may use wild cards for the machine name or IP address to specify multiple machines.)

d) When prompted, enter a non-null, authentication code (8 characters or less) that IRC operators will use to authenticate themselves on client machines.

e) Repeat Steps 4b and 4c to specify additional client machines that IRC operators may use to access the server.

f) To exit this routine, leave the Machine Name or IP Address field blank and press <Enter>.

Step 5:   * * * IRC SERVER NEIGHBORS SPECIFICATION * * *

Neighboring IRC Servers should only be specified after <u>all</u> of the information specified in the Pre-Installation Instructions section of this document has been obtained for a particular site.

NOTE: IRC Neighbor Servers need not be specified at time of installation. Therefore, this routine may be by-passed. You may execute the following routine to specify neighboring IRC servers at a later time:

/h/COE/Comp/IRCS/bin/IRCS_verify add_neighbors

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a) When asked whether or not you wish to specify IRC neighbors at this time, type **y** and press <Enter>, to proceed with specifying IRC neighbors. However, to by-pass this operation, press <Enter> (default response is "n") to continue to the next routine.

b) When prompted, type **y** and press <Enter> to obtain more information on how to specify IRC neighbors. Or, press <Enter> (default response is "n") to continue.

c) When prompted, enter the name of the machine hosting your neighbor's IRC server.

d) Enter your neighbor's IRC server name (that is, the IRC server name your neighbor used or will use when installing their IRC server).

e) Enter a non-null, authentication code (8 chars or less) that your server will use to access your neighbor's server.

f) Enter a non-null, authentication code (8 chars or less) that your neighbor will use to access your server.

g) When asked whether or not your neighbor's server is a hub, press <Enter> (default response is "y") to respond "yes" or, type **n** and press <Enter> to respond "no".

h) Repeat Steps 5a to 5e to specify additional neighboring IRC servers.

i) To exit this routine, leave the Neighbor's Host Machine Name field blank and press <Enter>.

Step 6:   `* * * IRC Server Automatic Start-up * * *`

Please make note of all pertinent information that appears in this display window and respond to subsequent prompts accordingly.

4.2.2   De-Installing the IRCS Segment

To de-install the IRCS segment, select the IRCS segment from the COE Installer's Currently Installed Segments window and press the **DEINSTALL SOFTWARE** button.

4.3   Installation of Upgrades

None.

4.4   Installation Verification

To verify that this software has been installed correctly, refer to the procedures outlined in the *DII COE Segment Software Test Description (STD) - Internet Relay Chat Server (IRCS)* that was delivered with V1.0.0.2/2.8.21 of this segment.

4.5   Initializing the Software

Not required.

4.6   List of Changes and Enhancements

Refer to the "Changes Installed" section of the *DII COE Segment System Version Description (SVD) - Internet Relay Chat Server (IRCS)* document, for details regarding changes incorporated into this release of the IRCS segment.

4.7   Important Considerations

None.

5. Notes

None.

A. Appendices

None.